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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,216	03/15/2004	Akihiro Maezawa	KOY-0036	3130
23413 7	590 06/21/2005		EXAM	INER
CANTOR COLBURN, LLP		SCHILLING, RICHARD L		
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
			1752	•
			DATE MAILED: 06/21/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	- 1		
Office Action Summary	Application No.	Applicant(s)  Maezawa  Group Art Unit	e tal
—The MAILING DATE of this communication appea	ars on the cover shee	t beneath the correspondence ac	Idress-
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET T OF THIS COMMUNICATION.	ro expire 3	MONTH(S) FROM THE MAIL	ING DATE
<ul> <li>Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, such period shall, by default</li> <li>Failure to reply within the set or extended period for reply will, by state</li> </ul>	eply within the statutory mit, expire SIX (6) MONTHS	inimum of thirty (30) days will be considere from the mailing date of this communication	ed timely.
Status			
☐ Responsive to communication(s) filed on			
☐ This action is <b>FINAL</b> .			
<ul> <li>Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 193</li> </ul>			sed in
Disposition of Claims			
Graim(s)         1-7		is/are pending in the app	lication.
Of the above claim(s)		is/are withdrawn from co	nsideration.
□ Claim(s)	. •	is/are allowed.	÷
□ Claim(s) 1-7		is/are rejected.	
□ Claim(s)		is/are objected to.	
□ Claim(s)			or election
Application Papers		requirement.	
☐ See the attached Notice of Draftsperson's Patent Drawin	ng Review, PTO-948.		
☐ The proposed drawing correction, filed on	is ☐ approve CCEpTEcl sted to by the Examine	d ☐ disapproved.	
	<del>sted to</del> by the Examine	эг.	
<ul> <li>☐ The specification is objected to by the Examiner.</li> <li>☐ The oath or declaration is objected to by the Examiner.</li> </ul>			
Priority under 35 U.S.C. § 119 (a)-(d)			
☑ Acknowledgment is made of a claim for foreign priority u	inder 35 U.S.C. § 11 9	(a)-(d).	
☐ All ☐ Some* ☐ None of the CERTIFIED copies of	•	· · · ·	
received.			
<ul> <li>□ received in Application No. (Series Code/Serial Numb</li> <li>□ received in this national stage application from the Int</li> </ul>	•	T Rule 1 7.2(a)).	
*Certified copies not received:		· · · · · · · · · · · · · · · · · · ·	
Attachment(s)	11-4-04	٠	
☐ Information Disclosure Statement(s), PTO-1449, Paper N	VO(S) 22-2007	☐ Interview Summary, PTO-413	
☑ Notice of Reference(s) Cited, PTO-892	,	☐ Notice of Informal Patent Applicat	tion, PTO-152
□ Notice of Draftsperson's Patent Drawing Review, PTO-94		□ Other	
•	e Action Summary		
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Part of Paper No.\_

Serial No. 801,216

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a
printed publication in this or a foreign country or in
public use or on sale in this country, more than one
year prior to the date of application for patent in the
United States.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kawabata et al. '046. Kawabata et al. (see particularly column 3, line 39 - column 4, line 5; column 5, line 64 - column 6, line 19; column 6, lines 54-61; column 9, line 42 - column 10, line 6) discloses making phosphor crystals on supports by vapor deposition wherein the distance between the phosphor

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materials and supports is 10 to 60 cm with support temperatures being controlled to control crystal width. The supports may be heated or cooled. Alkali halide phosphors are preferred. If the evaporation speeds in Kawabata et al. are not inherently over .5 microns per minute as required by instant claims 1-4, then it would at least be obvious to one skilled in the art to use higher speeds since Kawabata et al. disclose using multiple heating resistance heaters and/or electron beams. Also, the panels of claims 5-7 are not materially different from those of Kawabata et al. even if made by vapor deposition at different speeds. comparative Examples in the specification do not necessarily show different panels for the different evaporation speeds of 10, 20 and 40 microns per minute at a distance of 28 cms and substrate temperatures of 150°C since panel thicknesses are not specified in the Examples. Thicker panels would have higher X-ray absorption and luminescent values (see Figure 5 of Kawabata et al.). The Examples in the specification do not specify thicknesses of the deposited phosphors, i.e. heights of crystals, or time of deposition. Also, the Examples in the specification are limited to preferred alkali metal phosphors within those of claim 6 with CsBr and Eu activators which are disclosed in applicants' specification on pages 3 and 4 as having problems due to support heating.

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- 2. Claims 1-7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Iwabuchi et al. Iwabuchi et al. (see particularly paragraphs 39-41; 45, 110) discloses making panels by vapor depositing phosphors onto supports at vacuums of  $1.33 \times 10^{-4}$  to  $1.33 \times 10^{-2}$  Pa at a distance of 5-150 cms and at evaporation rates of preferably 1-100 microns per minute. The supports may be cooled or heated. If Iwabuchi et al. do not anticipate the instant claims, then it would at least be obvious to one skilled in the art to form phosphor panels using vacuums, i.e.  $1 \times 10^{-2}$  Pa.
- 3. The prior art submitted by applicants has been considered.
- 4. Any inquiry concerning this communication should be directed to Mr. Schilling at telephone number (571) 272-1335.

RLSchilling:cdc
June 14, 2005

RICHARD L. SCHILLING
PRIMARY EXAMINER
GROUP 1100